Release notes for ENDF/B Development photoat-002_He_000 evaluation



October 13, 2016

- checkr Warnings:
 - 1. A previous error halted parsing of the current section MAT = 200, MF = 1, MT = 451 (1): Parsing stopped

ERROR(S) FOUND IN MAT= 200, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 144 TO 157

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT = 200, MF = 1, MT = 451 (0): Variable range

ERROR(S) FOUND IN MAT= 200, MF= 1, MT=451
MOD = 3 OUT OF RANGE 0 - 1 RECORD NUMBER 144

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 200, MF = 23, MT = 501 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=23, MT=501
SECTION 23/501 NOT IN DIRECTORY RECORD NUMBER 159

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 200, MF = 23, MT = 502 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=23, MT=502
SECTION 23/502 NOT IN DIRECTORY RECORD NUMBER 374

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 200, MF = 23, MT = 504 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=23, MT=504
SECTION 23/504 NOT IN DIRECTORY RECORD NUMBER 488

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=200, MF=23, MT=515 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=23, MT=515
SECTION 23/515 NOT IN DIRECTORY RECORD NUMBER 529

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 200, MF = 23, MT = 516 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=23, MT=516
SECTION 23/516 NOT IN DIRECTORY RECORD NUMBER 560

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=200, MF=23, MT=517 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=23, MT=517 SECTION 23/517 NOT IN DIRECTORY

RECORD NUMBER 603

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 200, MF = 23, MT = 522 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=23, MT=522 SECTION 23/522 NOT IN DIRECTORY

RECORD NUMBER 636

9. Missing a section in directory so your directory is messed up. This error will break everything else MAT=200, MF=23, MT=534 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=23, MT=534 SECTION 23/534 NOT IN DIRECTORY

RECORD NUMBER 668

10. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 200, MF = 27, MT = 502 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=27, MT=502 SECTION 27/502 NOT IN DIRECTORY

RECORD NUMBER 701

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 200, MF = 27, MT = 504 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=27, MT=504 SECTION 27/504 NOT IN DIRECTORY

RECORD NUMBER 748

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 200, MF = 27, MT = 505 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=27, MT=505 SECTION 27/505 NOT IN DIRECTORY

RECORD NUMBER 796

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 200, MF = 27, MT = 506 (0): Directory (b)

ERROR(S) FOUND IN MAT= 200, MF=27, MT=506 SECTION 27/506 NOT IN DIRECTORY

RECORD NUMBER 860

- fudge-4.0 Warnings:
 - 1. generic warning message reaction label 0: He + gamma [coherent] / Product: gamma (Error # 0): Warning

WARNING: coherentScattering is not a valid distribution component for 2-body reaction

2. FIXME: Generic fudge unimplemented message reaction label 0: He + gamma [coherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for pointwise type data

3. generic warning message reaction label 1: He + gamma [incoherent] / Product: gamma (Error # 0): Warning

WARNING: incoherentScattering is not a valid distribution component for 2-body reaction

4. FIXME: Generic fudge unimplemented message reaction label 1: He + gamma [incoherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for piecewise type data

5. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 5: total (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 100.00%

• fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree reaction label 0: He + gamma [coherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

2. 2-body reaction not in center-of-mass frame reaction label 0: He + gamma [coherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

3. Calculated and tabulated thresholds don't agree reaction label 1: He + gamma [incoherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

4. 2-body reaction not in center-of-mass frame reaction label 1: He + gamma [incoherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

5. Energy range of data set does not match cross section range reaction label 1: He + gamma [incoherent] / Product: gamma / Distribution incoherentScattering - piecewise: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (0.0 -> 1000000000.0) vs (1.0 -> 1e+11)

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2.044e6 eV!

7. Calculated and tabulated thresholds don't agree reaction label 3: e- + e+ + He [nuclear field] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

8. Calculated and tabulated thresholds don't agree reaction label 4: e- + He1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.42 eV!

9. Calculated and tabulated thresholds don't agree summedReaction label 5: total / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

10. Calculated and tabulated thresholds don't agree summedReaction label 6: pair product / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

11. Calculated and tabulated thresholds don't agree summedReaction label 7: photoelectric absorption / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 23.42 eV!